

Comparisons of Job Characteristics

Focus Occupation: [Highway Maintenance Workers \(47-4051\)](#)

Associated Occupation: [Heavy and Tractor-Trailer Truck Drivers \(53-3032\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 66

Focus Occupation: Highway Maintenance Workers (47-4051)

Associated Occupation: Heavy and Tractor-Trailer Truck Drivers (53-3032)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Transportation	4.6	16.1	10.6	<< Extensive education and/or training may be required
Public Safety and Security	6.9	10.4	14.2	>> Current knowledge level is likely more than sufficient
Geography	3.9	6.9	5.4	< Expanded education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 89

Focus Occupation: Highway Maintenance Workers (47-4051)

Associated Occupation: Heavy and Tractor-Trailer Truck Drivers (53-3032)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Operation and Control	5.4	13.1	11.4	< A higher skill level may be required
Operation Monitoring	6.6	9.9	11.4	> Skill level is likely sufficient
Quality Control Analysis	5.9	8.3	8.4	0 Current skill level may be sufficient
Equipment Maintenance	3.5	7.3	8.3	> Skill level is likely sufficient
Troubleshooting	4.5	7.0	8.5	> Skill level is likely sufficient
Repairing	3.4	6.9	7.9	> Skill level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 81

Focus Occupation: Highway Maintenance Workers (47-4051)

Associated Occupation: Heavy and Tractor-Trailer Truck Drivers (53-3032)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Control Precision	6.6	13.1	13.3	0	Current ability level may be sufficient
Multilimb Coordination	6.0	12.7	12.9	0	Current ability level may be sufficient
Far Vision	7.8	12.3	8.7	<<	Extensive improvement in abilities may be required
Reaction Time	4.8	12.3	10.8	<	Some improvement in abilities may be required
Response Orientation	4.0	12.1	9.8	<	Some improvement in abilities may be required
Static Strength	5.0	11.6	10.1	<	Some improvement in abilities may be required
Depth Perception	5.3	11.4	10.2	<	Some improvement in abilities may be required
Rate Control	3.8	11.2	9.8	<	Some improvement in abilities may be required
Spatial Orientation	2.7	10.2	6.9	<<	Extensive improvement in abilities may be required
Peripheral Vision	2.2	9.0	5.5	<<	Extensive improvement in abilities may be required
Night Vision	2.1	8.9	4.8	<<	Extensive improvement in abilities may be required
Glare Sensitivity	2.6	7.9	5.6	<<	Extensive improvement in abilities may be required
Sound Localization	2.2	7.7	5.0	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 64

Focus Occupation: Highway Maintenance Workers (47-4051)

Associated Occupation: Heavy and Tractor-Trailer Truck Drivers (53-3032)

Work Activities	Exclusivity of Activity
Drive truck with capacity greater than 3 tons	72
Move or fit heavy objects	8
Transport passengers or cargo	64

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 73

Focus Occupation: Highway Maintenance Workers (47-4051)
Associated Occupation: Heavy and Tractor-Trailer Truck Drivers (53-3032)

Tools and Technologies	Exclusivity
Aerial lifts	13
Business function specific software	1
Compressors	9
Computers	1
Data management and query software	1
Earth moving machinery	11
Heavy equipment components	21
Lifting equipment and accessories	3
Personal communication devices	2
Product and material trailers	24
Product and material transport vehicles	13

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.